Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS−01

Dated: NOVEMBER 2004

1125 1125
50
550
1200
50

DRW.001−OC12S,12M,SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°−5°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.001A-OC12S,12M,SINGLE CIRCUIT,INTERMEDIATE STRUCTURE, 0°-5° FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

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02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.001B-OC12S,12M,SINGLE CIRCUIT,INTERMEDIATE STRUCTURE, 0°-5°
FOR QUAIL MAIN CONDUCTOR

1125 1125

50

250

550

1200

50

DRW.002-OC12S, 12M, S.C. LIGHT ANGLE STRUCT., 6°-15° W/ONE STAY

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	14M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.002A-OC12S, 12M, S.C. LIGHT ANGLE STRUC. 6°-15° W/ONE STAY FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	14M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.002B-OC12S, 12M, S.C. LIGHT ANGLE STRUC. 6°-15° W/ONE STAY FOR QUAIL MAIN CONDUCTOR

DRW.003-OC12S, 12M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE, 16°-60° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.003A-OC12S,12M, S.C. MEDIUM ANGLE STRUCTURE 16°-60°
WITH STAYS FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

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02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.003B-OC12S,12M, S.C. MEDIUM ANGLE STRUCTURE 16°-60° WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.004-OC12S, 12M, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE, 61°-90° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.004A-OC12S, 12M, S.C. HEAVY ANGLE STRUCTURE 61°-90° WITH STAYS FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

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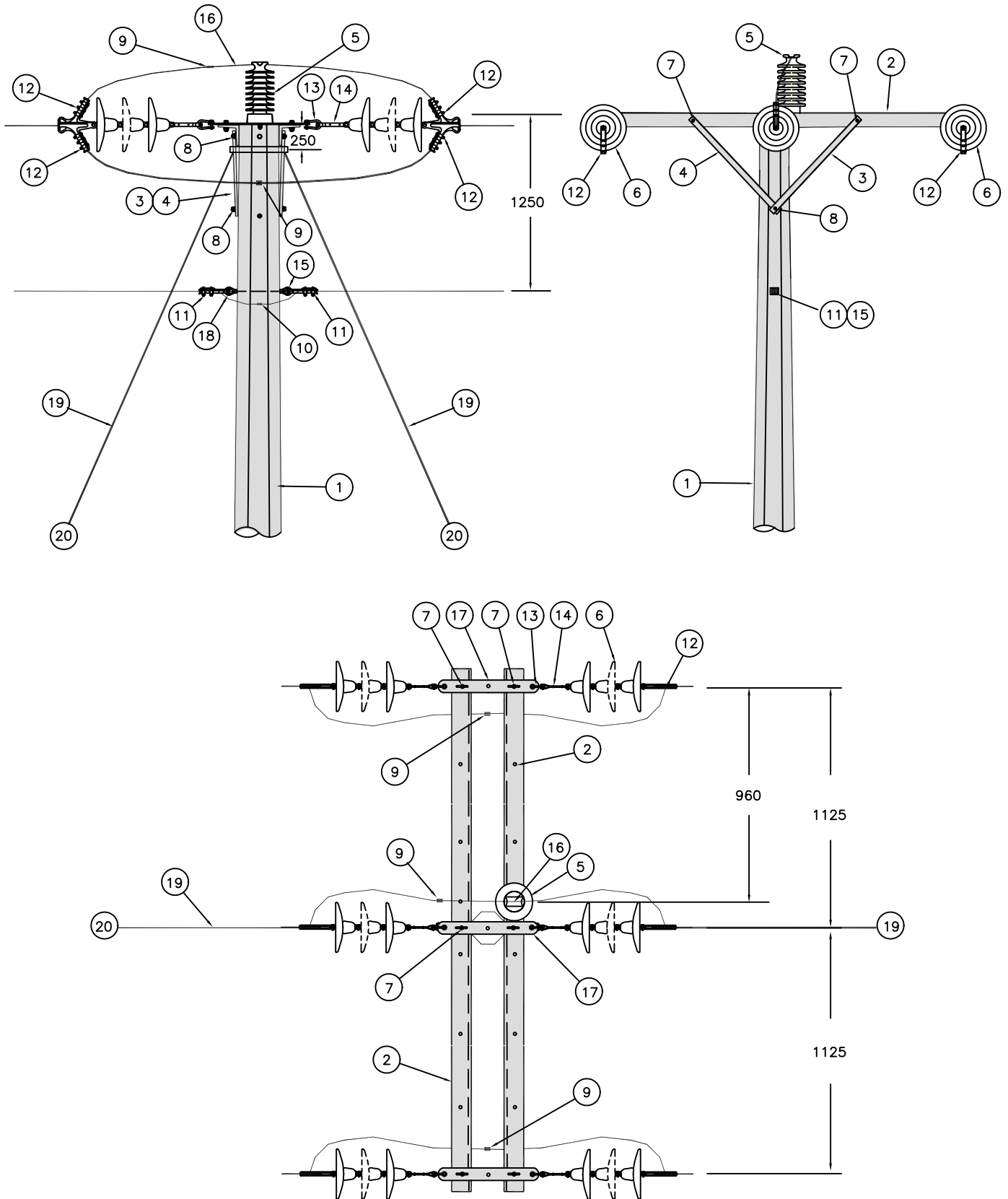
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.004B-OC12S,12M, S.C. HEAVY ANGLE STRUCTURE 61°-90° WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.005-OC12S, 12M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.005A-OC12S, 12M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	27M	M.V. Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.005B-OC12S, 12M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS FOR QUAIL MAIN CONDUCTOR

250
100
1250

DRW.006-OC12S, 12M, SINGLE CIRCUIT, TERMINAL STRUCTURE W/TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.006A-OC12S, 12M, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH TWO STAYS FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

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SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.006B-OC12S, 12M, SINGLE CIRCUIT, TERMINAL STRUCTURE
WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.007-OC12S, 12M, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	51M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
22	2 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.007A-OC12S, 12M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR MERLIN MAIN & MERLIN

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S – 12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	51M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
22	2 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.007B-OC12S, 12M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR QUAIL MAIN & QUAIL

1125 1125

50

550

1200

50

2 10 6 10 11 4 3 11 11 5 1

9 6 7 2 3 4 11 5 8 1

DRW.008-OC13S, 13M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°-5°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

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SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.008A-OC13S, 13M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE 0°-5° FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.008B-OC13S, 13M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE 0°-5° FOR QUAIL MAIN CONDUCTOR

DRW.009-OC13S, 13M, S.C. LIGHT ANGLE STRUCT., 6°-15° W/ONE STAY

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	15M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.009A-OC13S, 13M, S.C. LIGHT ANGLE STRUC. 6°-15° W/ONE STAY FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	15M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.009B-OC13S, 13M, S.C. LIGHT ANGLE STRUC. 6°-15° W/ONE STAY FOR QUAIL MAIN CONDUCTOR

1290
1250
1125
1125
250
100

DRW.010-OC13S, 13M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE, 16°-60° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.010A-OC13S,13M, S.C. MEDIUM ANGLE STRUCTURE 16°-60°
WITH STAYS FOR MERLIN MAIN CONDUCTOR

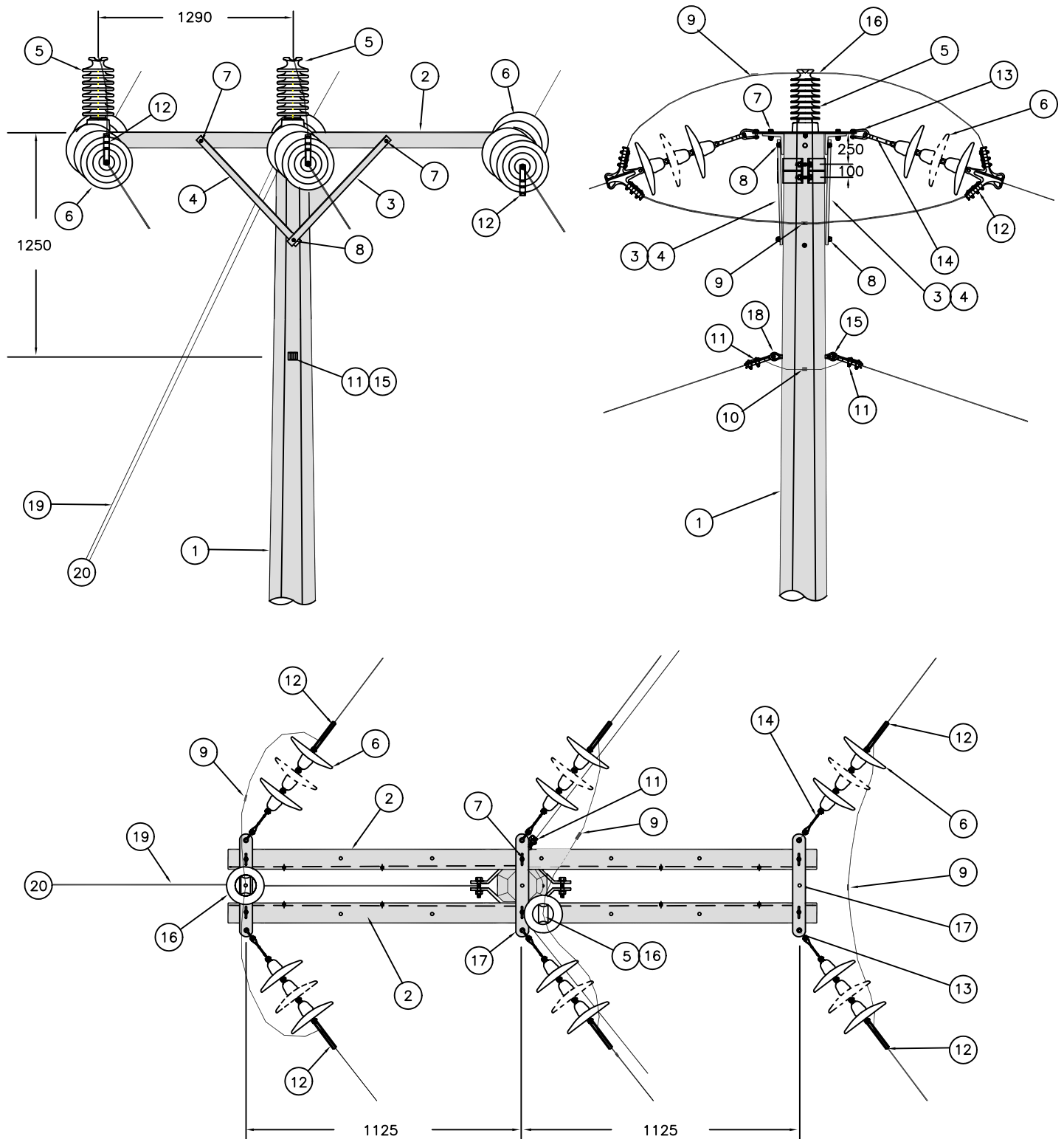
Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.010B-OC13S,13M, S.C. MEDIUM ANGLE STRUCTURE 16°-60°
WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.011-OC13S, 13M, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE, 61°-90° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SDCS-01

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.011A-OC13S, 13M, S.C. HEAVY ANGLE STRUCTURE 61°-90° WITH STAYS FOR MERLIN MAIN CONDUCTOR

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.011B-OC13S, 13M, S.C. HEAVY ANGLE STRUCTURE 61°-90° WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.012-OC13S, 13M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

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Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.012A-OC13S, 13M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	30M	M.V. Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.012B-OC13S, 13M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS FOR QUAIL MAIN CONDUCTOR

250

100

1250

DRW.013-OC13S, 13M, SINGLE CIRCUIT, TERMINAL STRUCTURE W/TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.013A-OC13S, 13M, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH TWO STAYS FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.013B-OC13S, 13M, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.014-OC13S, 13M, S.C. DOUBLE TERMINAL AT 90°
STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
22	2 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.014A-OC13S, 13M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR MERLIN MAIN & MERLIN

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20–SDMS–01	Page 35
02	4	Crossarm – L 100x100x12x2400mm L.G.	20–SDMS–02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20–SDMS–02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20–SDMS–02	Fig. 04
05	3	Line Post Insulator	15–SDMS–01	Clause 4.2.8
06	6 Set	Suspension Insulator	15–SDMS–01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20–SDMS–02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20–SDMS–02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20–SDMS–02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20–SDMS–02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20–SDMS–02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20–SDMS–02	Fig. 30
13	6	Strain Clamp, 3 U–Bolts Type for Quail	20–SDMS–02	Fig. 29
14	8	Anchor Shackle	20–SDMS–02	Fig. 20
15	6	Clevis Eye Extension	20–SDMS–02	Fig. 21
16	1	Earthwire Suspension Support	20–SDMS–02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20–SDMS–02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20–SDMS–02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20–SDMS–02	Fig. 53/54
20	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.–S.C. Two Stay Assembly	20–SDMS–02	Drw. 303
22	2 Set	M.V.–S.C One Stay Assembly	20–SDMS–02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20–SDMS–02	Fig. 49/50
24	16M	Anti–Climbing Device, Barbed Wire	20–SDMS–02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20–SDMS–02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20–SDMS–02	Fig. 51
27	1 Set	Pole Numbering Plates	20–SDMS–02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.014B–OC13S, 13M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR QUAIL MAIN & QUAIL

1125 1125

50

550

1200

50

DRW.015-OC14S, 14M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°-5°

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.015A-OC14S,14M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°-5° FOR MERLIN MAIN CONDUCTOR

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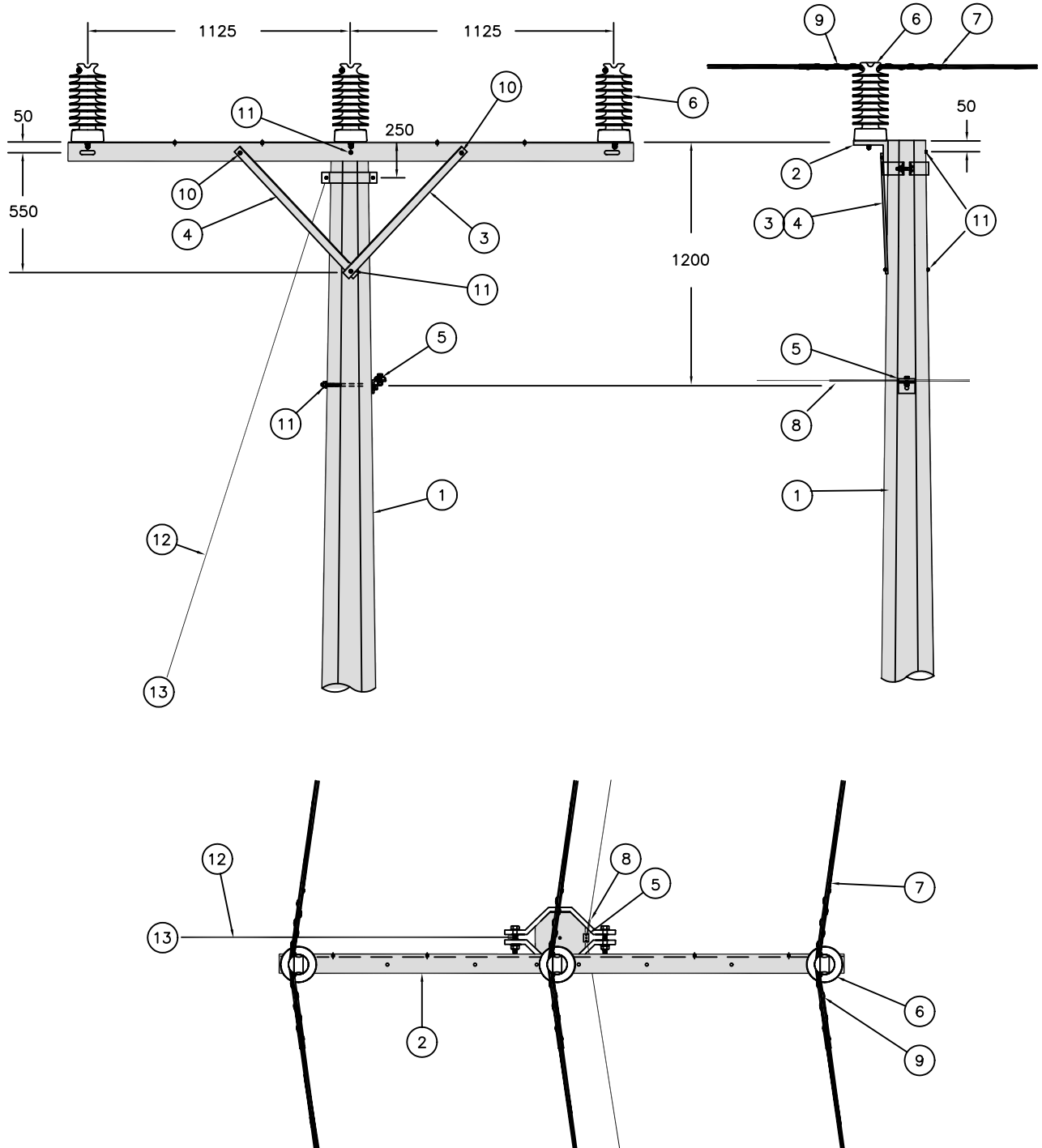
Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.015B-OC14S, 14M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°-5° FOR QUAIL MAIN CONDUCTOR

1125 1125 50 250 550 1200 50

DRW.016-OC14S, 14M, S.C. LIGHT ANGLE STRUCTURE 6°-15° W/ONE STAY

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	16M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plates	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.016A-OC14S, 14M, SINGLE CIRCUIT, LIGHT ANGLE STRUCTURE 6°-15° WITH ONE STAY FOR MERLIN MAIN CONDUCTOR

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	Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	16M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.016B-OC14S, 14M, SINGLE CIRCUIT, LIGHT ANGLE STRUCTURE 6°-15° WITH ONE STAY FOR QUAIL MAIN CONDUCTOR

DRW.017-OC14S, 14M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE, 16°-60° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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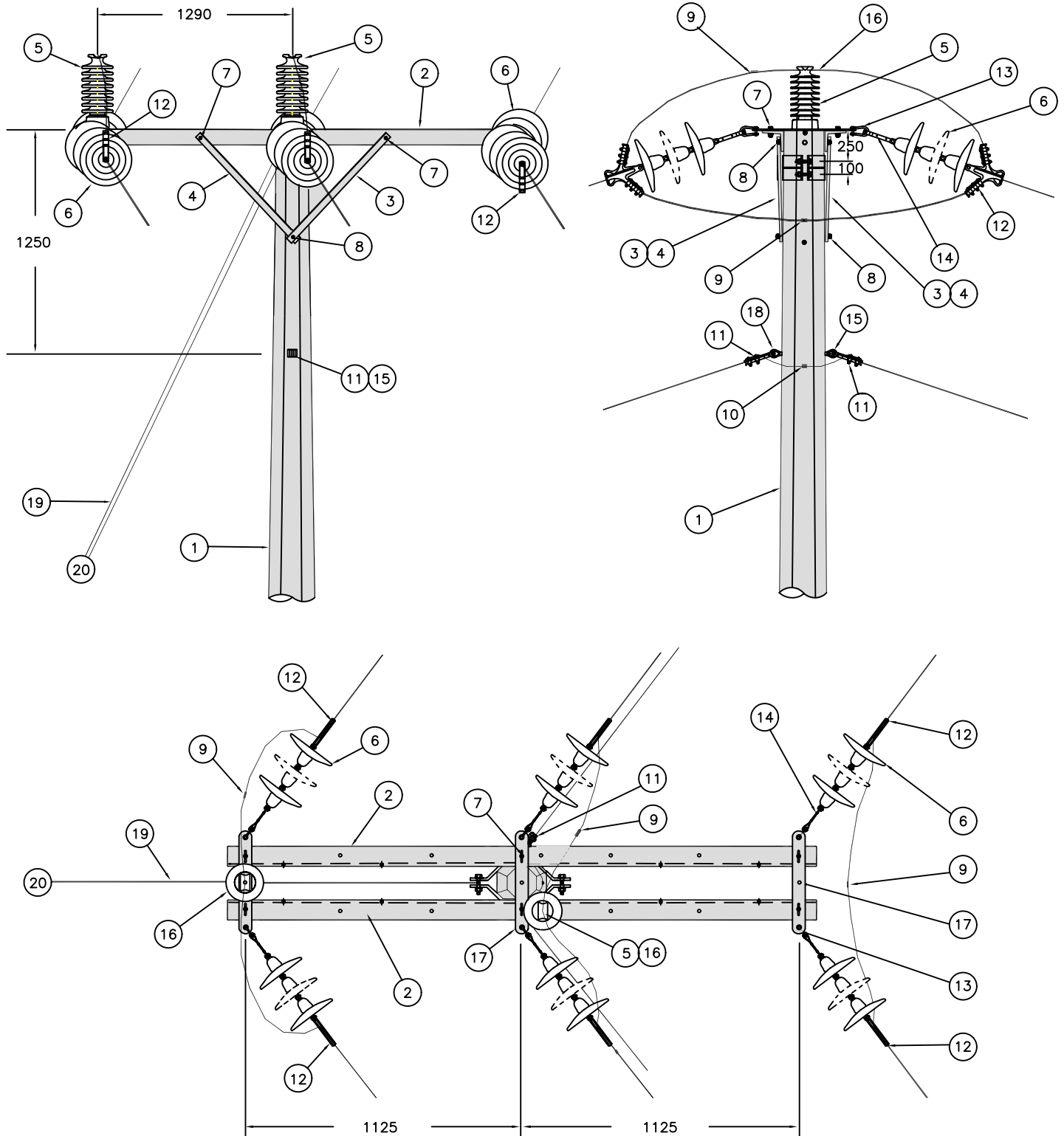
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.017A-OC14S,14M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE 16°-60° WITH STAYS FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.017B-OC14S, 14M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE 16°-60° WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.018-OC14S, 14M, SINGLE CIRCUIT, HEAVY ANGLE ANGLE STRUCTURE, 61°-90° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.018A-OC14S,14M, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE 61°-90° WITH STAYS FOR MERLIN MAIN CONDUCTOR

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S - 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.018B-OC14S, 14M, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE 61°-90° WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.019-OC14S, 14M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.019A-OC14S, 14M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS FOR MERLIN MAIN CONDUCTOR

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	M.V. Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.019B-OC14S, 14M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS FOR QUAIL MAIN CONDUCTOR

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DRW.020-OC14S,14M, SINGLE CIRCUIT, TERMINAL STRUCTURE W/TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.020A-OC14S,14M,SINGLE CIRCUIT,TERMINAL STRUCTURE W/TWO STAYS FOR MERLIN MAIN CONDUCTOR

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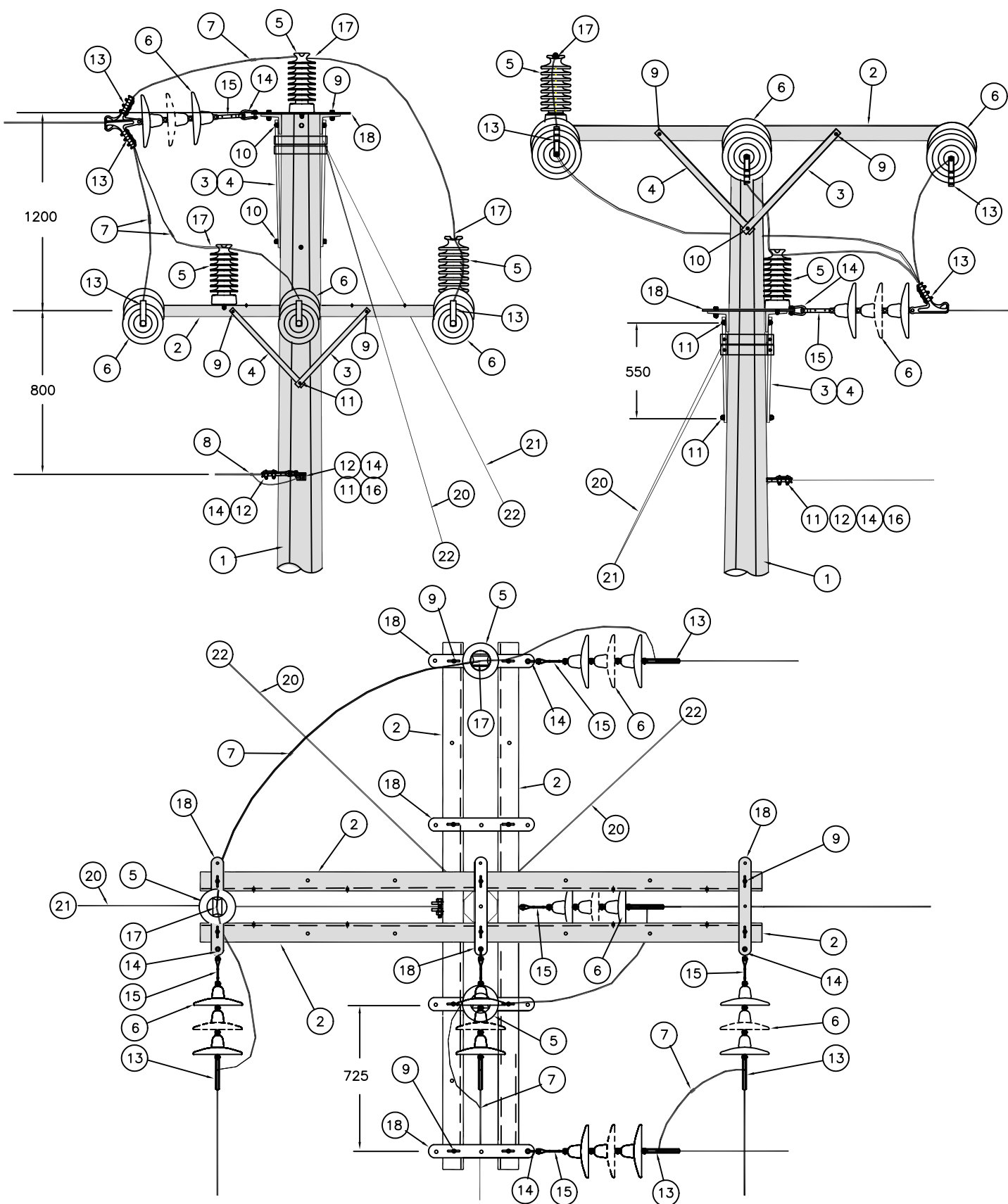
SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.020B-OC14S,14M,SINGLE CIRCUIT,TERMINAL STRUCTURE W/TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.021-OC14S, 14M, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
22	2 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.021A-OC14S, 14M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR MERLIN MAIN & MERLIN

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
22	2 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.021B-OC14S, 14M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR QUAIL MAIN & QUAIL

DRW.022-OC15S/D,15M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°-5°

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.022A-OC15S/D,15M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°-5° FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
13	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
15	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
16	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.022B-OC15S/D,15M, SINGLE CIRCUIT, INTERMEDIATE STRUCTURE, 0°-5° FOR QUAIL MAIN CONDUCTOR

DRW.023-OC15S/D, 15M, SINGLE CIRCUIT, LIGHT ANGLE STRUCTURE
6°-15° WITH ONE STAY

ALL DIMENSIONS ARE IN MILLIMETER

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SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	17M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.023A-OC15S/D, 15M, SINGLE CIRCUIT, LIGHT ANGLE STRUCTURE 6°-15° WITH ONE STAY FOR MERLIN MAIN CONDUCTOR

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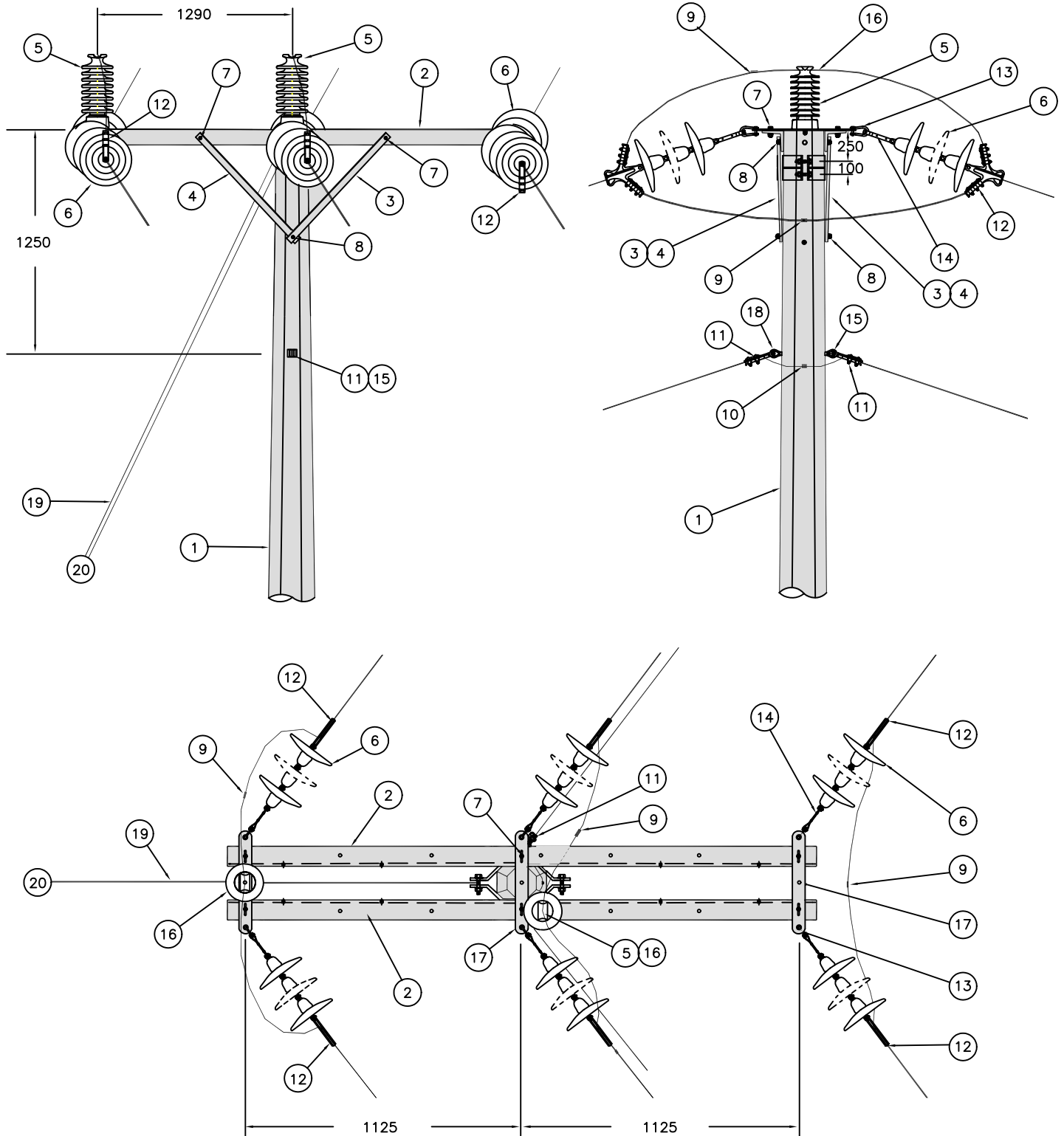
SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	17M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min.)		
13	1 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
14	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
15	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
18	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.023B-OC15S/D, 15M, SINGLE CIRCUIT, LIGHT ANGLE STRUCTURE 6°-15° WITH ONE STAY FOR QUAIL MAIN CONDUCTOR

DRW.024-OC15S/D, 15M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE, 16°-60° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.024A-OC15S/D,15M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE 16°-60° WITH STAYS FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.024B-OC15S/D,15M, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE 16°-60° WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.025-OC15S/D, 15M, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE, 61°-90° WITH TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.025A-OC15S/D, 15M, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE 61°-90° WITH STAYS FOR MERLIN MAIN CONDUCTOR

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.025B-OC15S/D, 15M, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE 61°-90° WITH TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.026-OC15S/D, 15M, SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.026A-OC15S/D, 15M, SINGLE CIRCUIT, SECTION STRUCTURE
WITH STAY FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	M.V. Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	MV, SC Section Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.026B-OC15S/D,15M,SINGLE CIRCUIT, SECTION STRUCTURE WITH STAYS FOR QUAIL MAIN CONDUCTOR

DRW.027-OC15S/D,15M, SINGLE CIRCUIT, TERMINAL STRUCT. W/TWO STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.027A-OC15S/D,15M,SINGLE CIRCUIT,TERMINAL STRUCT. W/TWO STAYS FOR MERLIN MAIN CONDUCTOR

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Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x260mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.027B-OC15S/D,15M,SINGLE CIRCUIT, TERMINAL STRUCT.W/TWO STAYS FOR QUAIL MAIN CONDUCTOR

DRW.028-OC15S/D, 15M, S.C. DOUBLE TERMINAL AT 90°
STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D − 15 Meter Steel Pole, HDG, Single Circuit	20−SDMS−01	Page 38
02	4	Crossarm − L 100x100x12x2400mm L.G.	20−SDMS−02	Fig. 01
03	4	Brace − L 50x50x4x828mm L.G.	20−SDMS−02	Fig. 04
04	4	Brace − L 50x50x4x828mm L.G. With One End Clipped	20−SDMS−02	Fig. 04
05	3	Line Post Insulator	15−SDMS−01	Clause 4.2.8
06	6 Set	Suspension Insulator	15−SDMS−01	Page 23
07	3	Parallel Groove Compression Connector for Merlin − Merlin	20−SDMS−02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20−SDMS−02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20−SDMS−02	Fig. 30
13	6	Strain Clamp, 3 U−Bolts Type for Merlin	20−SDMS−02	Fig. 29
14	8	Anchor Shackle	20−SDMS−02	Fig. 20
15	6	Clevis Eye Extension	20−SDMS−02	Fig. 21
16	1	Earthwire Suspension Support	20−SDMS−02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20−SDMS−02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20−SDMS−02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20−SDMS−02	Fig. 53/54
20	66M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.−S.C. Two Stay Assembly	20−SDMS−02	Drw. 303
22	2 Set	M.V.−S.C. One Stay Assembly	20−SDMS−02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20−SDMS−02	Fig. 49/50
24	18M	Anti−Climbing Device, Barbed Wire	20−SDMS−02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20−SDMS−02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20−SDMS−02	Fig. 51
27	1 Set	Pole Numbering Plates	20−SDMS−02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.028A−OC15S/D, 15M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR MERLIN MAIN & MERLIN

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 38
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	66M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 303
22	2 Set	M.V.-S.C. One Stay Assembly	20-SDMS-02	Drw. 302
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.028B-OC15S/D, 15M, S.C. DOUBLE TERMINAL AT 90°
WITH STAYS FOR QUAIL MAIN & QUAIL